

ABSTRACT

An endoscope that is free from a dead area and capable of preventing the physician from overlooking any nidus is an endoscope for taking the inside of digestive organs, and the
5 endoscope is provided with an omnidirectional camera (32), a light (34), a forceps (36) and a rinse water injection port (38) at the tip (24). The omnidirectional camera (32) is a device for taking the inside of digestive organs, and is able to take 360-degree images of its surroundings. A probe-type endoscope (20) is provided with a
10 receiver (26) composed of orthogonal coils, and the receiver (26) is used for estimating the position and attitude of the probe-type endoscope (20). An image taken by the omnidirectional camera (32) is presented on a display unit (28) of an image processing device (22) connected to the probe-type endoscope (20). In the
15 image processing device, a video mosaicking process is performed on a plurality of images obtained by the omnidirectional camera (32) to generate a panoramic image of the inside of a digestive organ.